

# Characterisation and age estimation of TPH contamination in Berlin-Neukölln

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**Project Objective:** Within the technical consultancy and expert's advisory services for the deconstruction of the petrol station in Berlin-Neukölln the age of the TPH contamination on site had to be evaluated for determination of the factors which caused the damages.

**Location:** Chemnitz

**Client:** Shell

**Beneficiary:** INTERGEO GmbH

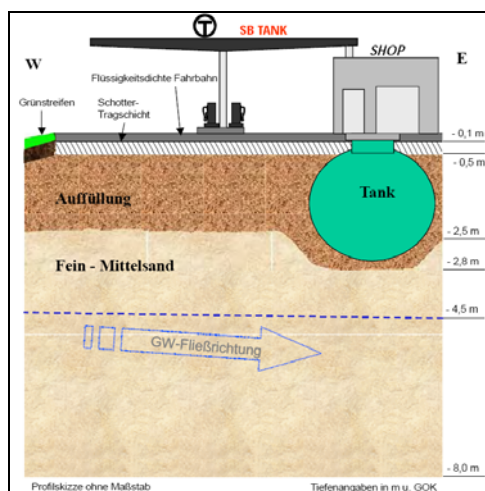
**Year:** 2008

**Budget:** 10.000 €



## Initial situation:

The investigation site is a petrol station in Berlin-Neukölln (region of glacial valley), which was operated from the beginning of 1950. There were several reconstructions and changes of management. In November 2007 the site was closed, then deconstructed including soil remediation. As part of a out-of-court dispute, investigations with the aim of estimating the age of TPH-damage two areas with respect to the total contents as well as the characterization of contamination by biomarker distribution patterns were examined.



## Services provided:

- Geochemical fingerprinting;
- Measure of contents of BTEX, TPH (H53) and plumb,
- Determination of pristane/phytane ratio using GC-MS,
- organic overview analysis using GC-MS,
- Plumb-Isotropy on petrol
- Expert's report